Proceedings (Plant Sciences)

Volume 94, 1985

SUBJECT INDEX

Acetylene reduction
Nitrogen fixation by *Nostoc* strains 59
Achaetomium
On *Achaetomium* and a new genus Subramaniula (Ascomycota) 341
Acremonium
Fungal endophytes of forage grasses 129
Pigment localization in Dematiaceous Hyphomycetes and the segregation of Pseudogliomastix gen. nov. from Acremonium 273
Additional DNA sequences
Additional DNA sequences – Topography, property, role and evolutionary significance 487
Agaricales
The relevance of chemical characters for the taxonomy of Agaricales 381
Aleuriospores
Physiological studies of the Gymnoascaceae with an overview on their ecology 197
Alloploid
Cytology of woody species 607
Ambrosia beetles
Ambrosia beetles and their associated fungi research trends and techniques 137
Ambrosia fungi
Ambrosia beetles and their associated fungi: research trends and techniques 137
Ammonium and nitrate inhibition
Nitrogen fixation by *Nostoc* strains 59
Amphotericin B
Drechslera longirostrata (Subramanian) and other *Drechslera* species pathogenic to humans and animals 453
Andromedeae (Ericaceae)
The veinlet syndrome in the tribe Andromedeae (Ericaceae) 639
Anogeissus latifolia
Pharmacognostic studies on "Dhava" (*Anogeissus latifolia* Bedd.) – I. Stem-bark and root 589
Anthraquinonic pigments
The relevance of chemical characters for the taxonomy of Agaricales 381
Antifungal agents
Drechslera longirostrata (Subramanian) and other Drechslera species pathogenic to humans and animals 453
Aquatic hyphomycetes
Conidia as modified hyphae 109
Areolate
Seedcoat micromorphology of Caryophyllales: Observations on some Molluginaceae 51
Arthrinium
A re-appraisal of the relationships between Arthrinium and other hyphomycetes 281
Arthro-aleuriospore
Physiological studies of the Gymnoascaceae with an overview on their ecology 197
Ascomycetes
Meliolina subramanianii sp. nov. 347
Caryosporella rhizophorae gen. et sp. nov. (Massariaceae), a marine Ascomycete from *Rhizophora mangle* 355
Ascomycotina
Problems and prospects in the systematics of the Ascomycotina 319
Asynapsis
Cytology of woody species 607

Barren capitula
Floral differentiation and its modification 523
Basifimbria spinosa
Basifimbria spinosa, a new pleoanamorphic coprophilous hyphomycete 259
Bicarbonates
Effect of carbonate and bicarbonate on growth and sporulation in two blue-green algae 45
Biochemical behaviour
Physiological studies of the Gymnoascaceae with an overview on their ecology 197
Bioclimatic factors
Strand plant communities of the Indian subcontinent 505
Bio-ecological interactions
Management of *Rhizoctonia solani* diseases with chemicals 415
Biological species concept
The species concept in Hymenochaetaceae (Fungi: Hymenomycetes) 369
Black yeast
Conidial ontogenesis of pathogenic black yeasts and their pathogenicity for mice 437
Blastoconidia
Basifimbria spinosa, a new pleoanamorphic coprophilous hyphomycete 259
Blue-green algae
Effect of carbonate and bicarbonate on growth and sporulation in two blue-green algae 45

Brassica campestris
Seedling anatomy of *Brassica campestris* L. 633
Breadwheat
Factors controlling callus initiation, growth and plant regeneration in breadwheat (*Triticum aestivum* L) 33
Breeding approaches
India's changing agriculture: Its management, genetic vulnerability and diversification 465
Bulbostylis
Studies in Cyperaceae: XIX. Species novarum Cyperacearum in memorian optimi Professoris Swamy 11

Cajanus cajan
Foliar application of potassium on the growth and yield components of Pigeonpea (*Cajanus cajan* (L.) Millsp.) 671
Calendula
Floral differentiation and its modification 525
Callus cultures
Factors controlling callus initiation, growth and plant regeneration in breadwheat (*Triticum aestivum* L) 33
Capsicum
Abscission responses of petiolar explants of *Capsicum* varieties to treatments with growth substances and their combinations 663
Carbonates
Effect of carbonate and bicarbonate on growth and sporulation in two blue-green algae 45
Caryophyllales
Seedcoat micromorphology of Caryophyllales: Observations on some Molluginaceae 51
Cereal root rots
Propagule behaviour of the take-all fungus (*Gaeumannomyces graminis* var. *tritici*) at a field site in Western Australia 91
Chaetomium
On *Achaetomium* and a new genus Subramaniula (Ascomycota) 341
Chelisporium
Notes on some deuteromycete genera with cheiroid or digitate brown conidia 229
Chemotaxis
Photodynamically induced behavioural responses of the colourless flagellate *Polytomella magna*: Effects of methylene blue 475
Chemotaxonomy
The relevance of chemical characters for the taxonomy of Agaricales 381
Chenopodium
Floral differentiation and its modification 525
Chieroconium
Notes on some deuteromycete genera with cheiroid or digitate brown conidia 229
Chlorflurenol
Floral differentiation and its modification 525
Chromosome number
Cytology of woody species 607
Cytological studies on members of family Labiatae from Kodaikanal and adjoining areas (South India) 619
Chromosome structure
Additional DNA sequences – Topography, property, role and evolutionary significance 487
Chrysanthemum
Floral differentiation and its modification 525
C. lichenicola
Cylindrocarpon species associated with mycotic keratitis 433
Classification
A re-appraisal of the relationships between Arthrinium and other hyphomycetes 281
Problems and prospects in the systematics of the Ascomycotina 319
Combretaceae
Pharmacognostic studies on "Dhava" (*Anogeissus latifolia* Bedd.) – I. Stem-bark and root 589
Compositae
Development of male and female gametophytes and integument initiation in *Prenanthes brunoniana* Wall. (Compositae) 553
Condensed chromatin
Interphase nuclear structure in plants: role of nuclear DNA content and highly repeated DNA sequences in chromatin condensation 539
Conidial ontogenesis
Conidial ontogenesis of pathogenic black yeasts and their pathogenicity for mice 437
Conidiogenesis
Conidia as modified hyphae 209
A re-appraisal of the relationships between Arthrinium and other hyphomycetes 281
Conidiophores
Basifimbria spinosa, a new pleoanamorphic coprophilous hyphomycete 259
Coprophilous Hyphomycete
Basifimbria spinosa, a new pleoanamorphic coprophilous hyphomycete 259
Cordyceps cantharelloides
New and rare entomogenous fungi from Amazonia 309
Cortinarius
The relevance of chemical characters for the taxonomy of Agaricales 381
C. rhizophorae
Caryosporella rhizophorae gen. et sp. nov. (Massariaceae), a marine Ascomycete from *Rhizophora mangle* 355
Cyanobacteria
Nitrogen fixation by *Nostoc* strains 59

Cytokinesis
Cytology of woody species 607
Cytomixis
Cytology of woody species 607

Dactuliophora elongata
Identity of dactuliophora leaf spot of pearl millet 407
Dactuliophora leaf spot
Identity of dactuliophora leaf spot of pearl millet 407
Dematiaceae
Porosubramaniana, a new genus of lignicolous Hyphomycetes 253
Dematiaceous Hyphomycetes
Pigment localization in Dematiaceous Hyphomycetes and the segregation of *Pseudogliomastix* gen. nov. from *Acremonium* 273
Dermatophytes
Ecology of keratinophilic fungi 149
Dermocybe
The relevance of chemical characters for the taxonomy of Agaricales 381
Desynapsis
Cytology of woody species 607
Dhava
Pharmacognostic studies on "Dhava" (*Anogeissus latifolia* Bedd.)–I. Stem-bark and root 589
Dictyosporium
Notes on some deuteromycete genera with cheiroid or digitate brown conidia 229
Digitodesmium
Notes on some deuteromycete genera with cheiroid or digitate brown conidia 229
Dinitroaniline
Accumulation of nitrite as influenced by fluchloralin and benthiocarb in two tropical weed species 41
Directional movement
Monitoring of wheat rusts in the Indian subcontinent 387
Dissemination
Monitoring of wheat rusts in the Indian subcontinent 387
DNA sequences
Interphase nuclear structure in plants: role of nuclear DNA content and highly repeated DNA sequences in chromatin condensation 539
Dravanti
Pharmacognostic studies on 'Dravanti' Part-I *Jatropha curcas* Linn. 65
Drechslera species
Drechslera longirostrata (Subramanian) and other *Drechslera* species pathogenic to humans and animals 453

Edaphic factors
Strand plant communities of the Indian subcontinent 505
Eleocharis
Studies in Cyperaceae: XIX. Species novarum Cyperacerum in memoriam optimi Professoris Swamy 11
Endophytes
Fungal endophytes of forage grasses 129
Entomogenous fungi
New and rare entomogenous fungi from Amazonia 309
Epidemiology
Monitoring of wheat rusts in the Indian subcontinent 387
Extra-cellular polysaccharides
Immunogenic analysis of extra-cellular polysaccharide of rhizobia collected from South Indian soils 575
Eugymnohymenial ascomata
Pseudascozonus, a new genus of Pezizales 363
Euphorbiaceae
Pharmacognostic studies on 'Dravanti' Part-I *Jatropha curcas* Linn. 65

Farming systems
India's changing agriculture: Its management, genetic vulnerability and diversification 465
Festuca
Fungal endophytes of forage grasses 129
Fimbristylis
Studies in Cyperaceae: XIX. Species novarum Cyperacearum in memoriam optimi Professoris Swamy 11
Fimicolous fungi
Pseudascozonus, a new genus of Pezizales 363
Flagellates
Photodynamically induced behavioural responses of the colourless flagellate *Polytomella magna*: Effects methylene blue 475
Floral differentiation
Floral differentiation and its modification 525
Floral meristem
Floral differentiation and its modification 525
Floral morphogenesis
Floral differentiation and its modification 525
Floral organogenesis
Floral differentiation and its modification 525
Flower drop
Foliar application of potassium on the growth and yield components of pigeonpea (*Cajanus cajan* (L.) Millsp.) 671
Foliar application
Foliar application of potassium on the growth and yield components of pigeonpea (*Cajanus cajan* (L.) Millsp.) 671

Foliar sclereids
Typology and taxonomic value of foliar sclereids in the Proteaceae III. *Petrophile* R. Br. ex Knight 655
Fruit bodies
Factors affecting the occurrence of fruitbodies of fungi forming sheathing(ecto-) mycorrhizas with roots of trees 111
Fuirena
Studies in Cyperaceae: XIX. Species novarum Cyperacearum in memoriam optimi Professoris Swamy 11
Fungal penetration
Specificity and penetration of tissues by mycorrhizal fungi 99
Fungal spores
Polarizing processes for germ tube outgrowth from monilioid fungal spores (*Neurospora* conidial model) 165
Fungal taxonomy
Two new hyphomycetes from Ethiopia 269
On *Achaetomium* and a new genus Subramaniula (Ascomycota) 341
Fungi
Factors affecting the occurrence of fruitbodies of fungi forming sheathing(ecto-) mycorrhizas with roots of trees 111
Fungal endophytes of forage grasses 129
Problems and prospects in the systematics of the Ascomycotina 319
Meliolina subramanianii sp. nov. 347
Fungicides
Management of *Rhizoctonia solani* diseases with chemicals 415
Fusarium solani
Cylindrocarpon species associated with mycotic keratitis 433
Fuseaux
Physiological studies of the Gymnoascaceae with an overview on their ecology 197

Gaeumannomyces graminis var. *tritici*
Effect of soil texture on microbial abbreviation of saprophytic survival by the take-all fungus of wheat 85
Gametophytes
Development of male and female gametophytes and integument initiation in *Prenanthes brunoniana* Wall. (Compositae) 553
GC content
Conidial ontogenesis of pathogenic black yeasts and their pathogenicity for mice 437
Genetic elements
Additional DNA sequences – Topography, property, role and evolutionary significance 487
Genetic potentials
India's changing agriculture: Its management, genetic vulnerability and diversification 465
Germination
Polarizing processes for germ tube outgrowth from monilioid fungal spores (*Neurospora* conidial model) 165
Gibberellic acid
Floral differentiation and its modification 525
Gliomastix
Pigment localization in Dematiaceous Hyphomycetes and the segregation of Pseudogliomastix gen. nov. from Acremonium 273
Glycogen
Effect of carbonate and bicarbonate on growth and sporulation in two blue-green algae 45
Growth
Seasonal growth, reproduction and spore shedding in *Pterocladia heteroplatos* 627
Growth substances
Abscission responses of petiolar explants of *Capsicum* varieties to treatments with growth substances and their combinations 663
Effect of different growth substances on the foliar stomata of *Tagetes erecta* L 683
Gymnothecium
Physiological studies of the Gymnoascaceae with an overview on their ecology 197

Halophytes
Strand plant communities of the Indian subcontinent 505
Helicorhoidion
Notes on some deuteromycete genera with cheiroid or digitate brown conidia 229
Helicosporous hyphomycetes
On the anamorph genus *Cirrenalia* 245
Hirsutella subramanianii
New and rare entomogenous fungi from Amazonia 309
Hydrobiological studies
Comparison of phytoplankton biomass in four water bodies of Dharwad, Karnataka State (India) 583
Hymenochaetaceae
The species concept in Hymenochaetaceae (Fungi, Hymenomycetes) 369
Hyphal morphogenesis
Conidia as modified hyphae 209
Hyphomycetes
Two new hyphomycetes from Ethiopia 269
A re-appraisal of the relationships between Arthrinium and other hyphomycetes 281

Immunogenicity
Immunogenic analysis of extra-cellular polysaccharide of rhizobia collected from South Indian soils 575

Indian agriculture
India's changing agriculture: Its management, genetic vulnerability and diversification 465
Inflorescence
Floral differentiation and its modification 525
Infrared analysis
Immunogenic analysis of extra-cellular polysaccharide of rhizobia collected from South Indian soils 575
Inoculum
Propagule behaviour of the take-all fungus (*Gaeumannomyces graminis* var. *tritici*) at a field site in Western Australia 91
Integument initiation
Development of male and female gametophytes and integument initiation in *Prenanthes brunoniana* Wall. (Compositae) 553
Interphase nuclear structure
Interphase nuclear structure in plants: role of nuclear DNA content and highly repeated DNA sequences in chromatin condensation 539
Itraconazole
Drechslera longirostrata (Subramanian) and other *Drechslera* species pathogenic to humans and animals 453

Jatropha curcas
Pharmacognostic studies on 'Dravanti' Part-I *Jatropha curcas* Linn. 65

Keratin
Ecology of keratinophilic fungi 149
Keratinophilic fungi
Ecology of keratinophilic fungi 149
Ketoconazole
Drechslera longirostrata (Subramanian) and other *Drechslera* species pathogenic to humans and animals 453

Labiatae
Cytological studies on members of family Labiatae from Kodaikanal and adjoining areas (South India) 619
Laccase
Survey of some Indian soils for laccase producing fungi and their lignin degrading ability 567
Lakes
Comparison of phytoplankton biomass in four water bodies of Dharwad, Karnataka State (India) 583
Lichena
Problems and prospects in the systematics of the Ascomycotina 319
Lignicolous Hyphomycetes
Porosubramaniana, a new genus of lignicolous Hyphomycetes 253
Lignin
Survey of some Indian soils for laccase producing fungi and their lignin degrading ability 567
Lipase
Enzymes from thermophilic fungi: Proteases and lipases 175
Lolium
Fungal endophytes of forage grasses 129
Long-day plants
Floral differentiation and its modification 525

Management
Monitoring of wheat rusts in the Indian subcontinent 387
Mangrove
Caryosporella rhizophorae gen. et sp. nov. (Massariaceae), a marine Ascomycete from *Rhizophora mangle* 355
Marine fungi
On the anamorph genus *Cirrenalia* 245
Meliolina
Meliolina subramanianii sp. nov. 347
Caryosporella rhizophorae gen. et sp. nov. (Massariaceae), a marine Ascomycete from *Rhizophora mangle* 355
Methylene blue
Photodynamically induced behavioural responses of the colourless flagellate *Polytomella magna*: Effects of methylene blue 475
Microbial hydrolases
Enzymes from thermophilic fungi: Proteases and lipases 175
Microbial rennet
Enzymes from thermophilic fungi: Proteases and lipases 175
Micromorphology
Seedcoat micromorphology of Caryophyllales: Observations on some Molluginaceae 51
Microspecies
The species concept in Hymenochaetaceae (Fungi, Hymenomycetes) 369
Molluginaceae
Seedcoat micromorphology of Caryophyllales: Observations of some Molluginaceae 51
Monilioid conidia
Polarizing processes for germ tube outgrowth from monilioid fungal spores (*Neurospora* conidial model) 165
Monosaccharide composition
Immunogenic analysis of extra-cellular polysaccharide of rhizobia collected from South Indian soils 575
Mutualism
Ambrosia beetles and their associated fungi: research trends and techniques 137
Mycorrhiza
Specificity and penetration of tissues by mycorrhizal fungi 99

Mycorrhizas
Factors affecting the occurrence of fruitbodies of fungi forming sheathing (ecto-) mycorrhizas with roots of trees 111
Mycoses
Drechslera longirostrata (Subramanian) and other *Drechslera* species pathogenic to humans and animals 453
Mycotic keratitis
Cylindrocarpon species associated with mycotic keratitis 433

Neurotropism
Conidial ontogenesis of pathogenic black yeasts and their pathogenicity for mice 437
Nitrite
Accumulation of nitrite as influenced by fluchloralin and benthiocarb in two tropical weed species 41

Opportunistic
Physiological studies of the Gymnoascaceae with an overview on their ecology 197

Parameter
Physiological studies of the Gymnoascaceae with an overview on their ecology 197
Pasture
Propagule behaviour of the take-all fungus (*Gaeumannomyces graminis* var. *tritici*) at a field site in Western Australia 91
Pearl millet
Identity of dactuliophora leaf spot of pearl millet 407
Pericarp
The pericarpic structure of *Withania somnifera* (L.) Dunal 677
Petiolar explant abscission
Abscission responses of petiolar explants of *Capsicum* varieties to treatments with growth substances and their combinations 663
Petrophile
Typology and taxonomic value of foliar sclereids in the Proteaceae III. *Petrophile* R. Br. ex Knight 655

Pezizales
Pseudascozonus, a new genus of Pezizales 363
Pharmacognosy
Pharmacognostic studies on 'Dravanti' Part-I *Jatropha curcas* Linn. 65
Pharmacognostic studies on "Dhava" (*Anogeissus latifolia* Bedd.)—I. Stem-bark and root 589
Photodispersal
Photodynamically induced behavioural responses of the colourless flagellate *Polytomella magna*: Effects of methylene blue 475
Photodynamic action
Photodynamically induced behavioural responses of the colourless flagellate *Polytomella magna*: Effects of methylene blue 475
Phytoplankton biomass
Comparison of phytoplankton biomass in four water bodies of Dharwad, Karnataka State (India) 583
Pigmentation
Pigment localization in Dematiaceous Hyphomycetes and the segregation of Pseudogliomastix gen. nov. from Acremonium 273

Placentae
The pericarpic structure of *Withania somnifera* (L.) Dunal 677
Plant height
Foliar application of potassium on the growth and yield components of pigeonpea (*Cajanus cajan* (L.) Millsp.) 671
Plant regeneration
Factors controlling callus initiation, growth and plant regeneration in breadwheat (*Triticum aestivum* L) 33
Pod structure
The structure of the pod in two species of *Prosopis* 1

Polarity
Polarizing processes for germ tube outgrowth from monilioid fungal spores (*Neurospora* conidial model) 165
Polybasic
Cytological studies on members of family Labiatae from Kodaikanal and adjoining areas (South India) 619
Polymorphism
Significance of seed coat pattern in *Vigna radiata* var. *sublobata* 561
Polyploidy
Cytological studies on members of family Labiatae from Kodaikanal and adjoining areas (South India) 619
Polytomella magna
Photodynamically induced behavioural responses of the colourless flagellate *Polytomella magna*: Effects of methylene blue 475
Ponds
Comparison of phytoplankton biomass in four water bodies of Dharwad, Karnataka State (India) 583
Porosubramaniana gen. nov.
Porosubramaniana, a new genus of lignicolous Hyphomycetes 253
Porosubramaniana moniliformis sp. nov.
Porosubramaniana, a new genus of lignicolous Hyphomycetes 253

Predication
Monitoring of wheat rusts in the Indian subcontinent 387
Prenanthes brunoniana
Development of male and female gametophytes and integument initiation in *Prenanthes brunoniana* Wall. (Compositae) 553
Prosopis
The structure of the pod in two species of *Prosopis* 1
Proteaceae
Typology and taxonomic value of foliar sclereids in the proteaceae III. *Petrophile* R. Br. ex. Knight 655
Proteases
Enzymes from thermophilic fungi: Proteases and lipases 175
Psammophytes
Strand plant communities of the Indian subcontinent 505
Pseudascozonus
Pseudascozonus, a new genus of Pezizales 363
Pseudogliomastix
Pigment localization in Dematiaceous Hyphomycetes and the segregation of Pseudogliomastix gen. nov. from Acremonium 273
Pterocladia heteroplatos
Seasonal growth, reproduction and spore shedding in *Pterocladia heteroplatos* 627

Racquetmycelia
Physiological studies of the Gymnoascaceae with an overview on their ecology 197
Reproduction
Seasonal growth, reproduction and spore shedding in *Pterocladia heteroplatos* 627
Reversal to vegetative growth
Floral differentiation and its modification 525
Rhizobial isolates
Immunogenic analysis of extra-cellular polysaccharide of rhizobia collected from South Indian soils 575
Rhizoctonia solani
Management of *Rhizoctonia solani* diseases with chemicals 415
Rhizophora
Caryosporella rhizophorae gen. et sp. nov. (Massariaceae), a marine Ascomycete from *Rhizophora mangle* 355

Saprophytic survival
Effect of soil texture on microbial abbreviation of saprophytic survival by the take-all fungus of wheat 85
Sclereid idioblasts
The veinlet syndrome in the tribe Andromedeae (Ericaceae) 639
Scleria
Studies in Cyperaceae: XIX. Species novarum Cyperacearum in memoriam optimi Professoris Swamy 11
Seasonal changes
Seasonal growth, reproduction and spore shedding in *Pterocladia heteroplatos* 627
Seedcoat
Seedcoat micromorphology of Caryophyllales: Observations on some Molluginaceae 51
Seed coat pattern
Significance of seed coat pattern in *Vigna radiata* var. *sublobata* 561
Seedling anatomy
Seedling anatomy of *Brassica campestris* L 633
Seedling rot
Management of *Rhizoctonia solani* diseases with chemicals 415
Selection species concept
The species concept in Hymenochaetaceae (Fungi, Hymenomycetes) 369
Selective herbicide
Accumulation of nitrite as influenced by fluchloralin and benthiocarb in two tropical weed species 41
Short-day plants
Floral differentiation and its modification 525
Sibling species
The species concept in Hymenochaetaceae (Fungi, Hymenomycetes) 369
Sinapis
Floral differentiation and its modification 525
Sirothecium
Notes on some deuteromycete genera with cheiroid or digitate brown conidia 229
Soils
Survey of some Indian soils for laccase producing fungi and their lignin degrading ability 567
Spacer
Additional DNA sequences – Topography, property, role and evolutionary significance 487
Specificity
Specificity and penetration of tissues by mycorrhizal fungi 99
Spinacea
Floral differentiation and its modification 525
Spore shedding
Seasonal growth, reproduction and spore shedding in *Pterocladia heteroplatos* 627
Sporulation
Effect of carbonate and bicarbonate on growth and sporulation in two blue-green algae 45
Stem-bark and root
Pharmacognostic studies on "Dhava" (*Anogeissus latifolia* Bedd.) – I. Stem-bark and root 589

Stomata
Effect of different growth substances on the foliar stomata of *Tagetes erecta* L 683
Strand plant communities
Strand plant communities of the Indian subcontinent 505
Styryl-pyrones
The relevance of chemical characters for the taxonomy of Agaricales 381
Subramaniula
On *Achaetomium* and a new genus Subramaniula (Ascomycota) 341
Symbiosis
Specificity and penetration of tissues by mycorrhizal fungi 99
Ambrosia beetles and their associated fungi: research trends and techniques 137
Systematics
Problems and prospects in the systematics of the Ascomycotina 319
Systematic position
Seedcoat micromorphology of Caryophyllales: Observations on some Molluginaceae 51
Syzygium
Meliolina subramanianii sp. nov. 347

Tagetes
Floral differentiation and its modification 525
Tagetes erecta
Effect of different growth substances on the foliar stomata of *Tagetes erecta* L 683
Take-all fungus
Propagule behaviour of the take-all fungus (*Gaeumannomyces graminis* var. *tritici*) at a field site in Western Australia 91
Taxonomic and diagnostic value
The veinlet syndrome in the tribe Andromedeae (Ericaceae) 639
Taxonomic significance
The structure of the pod in two species of *Prosopis* 1
Taxonomy
Conidia as modified hyphae 209
Pigment localization in Dematiaceous Hyphomycetes and the segregation of Pseudogliomastix gen. nov. from Acremonium 273
Teleomorph
Physiological studies of the Gymnoascaceae with an overview on their ecology 197
Terrestrial fungi
On the anamorph genus *Cirrenalia* 245
Thelebolaceae
Pseudascozonus, a new genus of Pezizales 363
Thermophilic fungi
Enzymes from thermophilic fungi: Proteases and lipases 175
Thiocarbamate
Accumulation of nitrite as influenced by fluchloralin and benthiocarb in two tropical weed species 41
Transposons
Additional DNA sequences – Topography, property, role and evolutionary significance 487
Triticum aestivum
Factors controlling callus initiation, growth and plant regeneration in breadwheat (*Triticum aestivum* L) 33
Tuberculate
Seedcoat micromorphology of Caryophyllales: Observations on some Molluginaceae 51
Type studies in fungi
The species concept in Hymenochaetaceae (Fungi, Hymenomycetes) 369
Typology
Typology and taxonomic value of foliar sclereids in the Proteaceae III. *Petrophile* R. Br. ex Knight 655

Ultrastructure
Pigment localization in Dematiaceous Hyphomycetes and the segregation of Pseudogliomastix gen. nov. from Acremonium 273
Floral differentiation and its modification 525

Vaginae
Cylindrocarpon species associated with mycotic keratitis 433
Vegetative anatomy
Studies in Cyperaceae: XIX. Species novarum Cyperacearum in memoriam optimi Professoris Swamy 11
Vein endings
The veinlet syndrome in the tribe Andromedeae (Ericaceae) 639
Vigna radiata var. *sublobata*
Significance of seed coat pattern in *Vigna radiata* var. *sublobata* 561
Virescent inflorescence
Floral differentiation and its modification 525

Wallrothiella
Pigment localization in Dematiaceous Hyphomycetes and the segregation of Pseudogliomastix gen. nov. from Acremonium 273
Wheat rusts
Monitoring of wheat rusts in the Indian subcontinent 387
Withania somnifera
The pericarpic structure of *Withania somnifera* (L.) Dunal 677

Wood
Survey of some Indian soils for laccase producing fungi and their lignin degrading ability 567

Xanthium
Floral differentiation and its modification 525

Yield components
Foliar application of potassium on the growth and yield components of pigeonpea (*Cajanus cajan* (L.) Millsp.) 671

AUTHOR INDEX

Arora D S
Survey of some Indian soils for laccase producing fungi and their lignin degrading ability 567

Babber S
Seedling anatomy of *Brassica campestris* L 633

Babu C R
see Ignacimuthu S 561

Bai R Kasturi
Immunogenic analysis of extra-cellular polysaccharide of rhizobia collected from South Indian soils 575

Batra L R
Ambrosia beetles and their associated fungi: research trends and techniques 137

Bhat D J
Two new hyphomycetes from *Ethiopia* 269

Bievre Claude de
see Drouhet Edouard 453

Bir S S
see Singhal V K 607
Cytological studies on members of family Labiatae from Kodaikanal and adjoining areas (South India) 619

Boekhout T
see Gams W 273

Booth C
Cylindrocarpon species associated with mycotic keratitis 433

Buffin Nathalie
Basifimbria spinosa, a new pleoanamorphic coprophilous hyphomycete 259

Chouhan Satish
see Johri Bhavdish N 175

Clayton Y M
see Booth C 433

Cole Garry T
Fungal endophytes of forage grasses 129

Dave Y S
The pericarpic structure of *Withania somnifera* (L.) Dunal 677

Descals E
Conidia as modified hyphae 209

Drouhet Edouard
Drechslera longirostrata (Subramanian) and other *Drechslera* species pathogenic to humans and animals 453

Evans Harry C
see Samson Robert A 309

Fleming L V
see Last F T 111

Gams W
Pigment localization in Dematiaceous hyphomycetes and the segregation of Pseudogliomastix gen. nov. from *Acremonium* 273

Garg A P
Ecology of keratinophilic fungi 149

Garg Raj
see Sarma T A 45

Garrett S D
Effect of soil texture on microbial abbreviation of saprophytic survival by the take-all fungus of wheat 85

Gill B S
see Singhal V K 607

Goos R D
On the anamorph genus *Cirrenalia* 245

Gopinathan M C
see Sivarajan V V 51

Gouri Rani Ghosh
Physiological studies of the Gymnoascaceae with an overview on their ecology 197

Govindarajalu E
Studies in Cyperaceae: XIX. Species novarum Cyperacearum in memoriam optimi Professoris Swamy 11

Grover Rajendra K
Management of *Rhizoctonia solani* diseases with chemicals 415

Gupta R C
Pharmacognostic studies on 'Dravanti' part-I *Jatropha curcas* Linn. 65
Pharmacognostic studies on "Dhava" (*Anogeissus latifolia* Bedd.) – I. Stem-bark and root 589

Harley J L
Specificity and penetration of tissues by micorrhizal fungi 99
Hawksworth D L
Problems and prospects in the systematics of the Ascomycotina 319
Hegde G R
Comparison of phytoplankton biomass in four water bodies of Dharwad, Karnataka State (India) 583
Hennebert G L
see Buffin Nathelie 259
Hughes S J
Meliolina subramanianii sp. nov. 347

Ignacimuthu S
Significance of seed coat pattern in *Vigna radiata* var. *sublobata* 561

Jain H K
India's changing agriculture: Its management, genetic vulnerability and diversification 465
Jain Sanjay
see Johri Bhavdish N 175
Jan Kohlmeyer
Caryosporella rhizophorae gen. et sp. nov. (Massariaceae), a marine Ascomycete from *Rhizophora mangle* 355
Jayasankari N
Nitrogen fixation by *Nostoc* strains 59
Johri Bhavdish N
Enzymes from thermophilic fungi: Proteases and lipases 175
Joshi C P
see Shubhada Patankar 539
Joshi L M
Monitoring of wheat rusts in the Indian subcontinent 387

Kaliaperumal N
Seasonal growth, reproduction and spore shedding in *Pterocladia heteroplatos* 627
Kataria Hans R
see Grover Rajendra K 415
Kothari I L
see Rangayya S 1

Last F T
Factors affecting the occurrence of fruitbodies of fungi forming sheathing (ecto-) mycorrhizas with roots of trees 111

Maria Häder
see Nultsch Wilhelm 475
Meher-Homji V M
see Rao T Ananda 505
Menon A R S
see Dave Y S 677
Minter David William
A re-appraisal of the relationships between *Arthrinium* and other hyphomycetes 281
Miyaji M
Conidial ontogenesis of pathogenic black yeasts and their pathogenicity for mice 437
Mohan Ram H Y
see Usha Rao I 525
Moser Meinhard
The relevance of chemical characters for the taxonomy of agaricales 381
Mrinal Bhave
see Shubhada Patankar 539
Mukerji K G
see Garg A P 149
Murty Y S
see Singh Karan 663
see Vidhu 683

Nishimura K
see Miyaji M 437
Nultsch Wilhelm
Photodynamically induced behavioural responses of the colourless flagellate *Polytomella magna*: Effects of methylene blue 475

Parmasto E
The species concept in Hymenochaetaceae (Fungi, Hymenomycetes) 369
Patel N D
see Dave Y S 677
Pillai A
see Babber S 633
Pirozynski K A
see Hughes S J 347
Prasad P
see Ravindranath N N V S 671
Pugh G J F
see Garg A P 149

Raju P N
see Bai R Kasturi 575
Ranade S A
see Shubhada Patankar 539
Rangayya S
The structure of the pod in two species of *Prosopis* 1
Ranjekar P K
see Shubhada Patankar 539
Rao K R
see Reddy N V R 41
Rao P S
see Susan Eapen 33

Rao T Ananda
Strand plant communities of the Indian subcontinent 505
The veinlet syndrome in the tribe Andromedeae (Ericaceae) 639
Typology and taxonomic value of foliar sclereids in the Proteaceae III. *Petrophile* R. Br. ex Knight 655

Rao K V Madhava
see Ravindranath N N V S 671

Rao M Umamaheswara
see Kaliaperumal N 627

Ravindranath N N V S
Foliar application of potassium on the growth and yield components of pigeonpea (*Cajanus cajan* (L.) Millsp.) 671

Reddy N V R
Accumulation of nitrite as influenced by fluchloralin and benthiocarb in two tropical weed species 41

Rowland I
see Sivasithamparam K 91

Saggoo M I S
see Bir S S 619

Samson Robert A
New and rare entomogenous fungi from Amazonia 309

Sandhu D K
see Arora D S 567

Sarma T A
Effect of carbonate and bicarbonate on growth and sporulation in two blue-green algae 45

Satyanarayana N V
see Ravindranath N N V S 671

Seema Wahab
see Drouhet Edouard 453

Shah G L
see Rangayya S 1

Shanmugasundaram S
see Jayasankari N 59

Sharma Arun Kumar
Additional DNA sequences – Topography, property, role and evolutionary significance 487

Sharma R K
see Vidhu 683

Shubhada Patankar
Interphase nuclear structure in plants: role of nuclear DNA content and highly repeated DNA sequences in chromatin condensation 539

Silpi Das
see Rao T Ananda 655

Singh D V
see Joshi L M 387

Singhal V K
Cytology of woody species 607

Singh Karan
Abscission responses of petiolar explants of *capsicum* varieties to treatments with growth substances and their combinations 663

Sivarajan V V
Seedcoat micromorphology of Caryophyllales: Observations on some Molluginaceae 51

Sivasithamparam K
Propagule behaviour of the take-all fungus (*Gaeumannomyces graminis* var. *tritici*) at a field site in Western Australia 91

Sood Sarvesh Kumar
Development of male and female gametophytes and integument initiation in *Prenanthes brunoniana* Wall. (Compositae) 553

Srivastava K D
see Joshi L M 387

Sudha Gandotra
see Garg A P 149

Susan Eapen
Factors controlling callus initiation, growth and plant regeneration in breadwheat (*Triticum aestivum* L.) 33

Sutton B C
Notes on some deuteromycete genera with cheiroid or digitate brown conidia 229

Swapna Chakraborti
see Rao T Ananda 639
see Rao T Ananda 655

Thakur Tejinder Singh
see Sood Sarvesh Kumar 553

Turian Gilbert
Polarizing processes for germ tube outgrowth from monilioid fungal spores (*Neurospora* conidial model) 165

Tyagi P D
Identity of dactuliophora leaf spot of pearl millet 407

Usha Rao I
Floral differentiation and its modification 525

Usherwood M
see Booth C 433

van Brummelen J
Pseudascozonus, a new genus of Pezizales 363

Vera Holubova-Jechova
Porosubramaniana, a new genus of lignicolous hyphomycetes 253

Vidhu
Effect of different growth substances on the foliar stomata of *Tagetes erecta* L 683

von Arx J A
On *Achaetomium* and a new genus *Subramaniula* (Ascomycota) 341

White James F
see Cole Garry T 129

Supplement to

Proceedings of the Indian Academy of Sciences

Plant Sciences — Volume 94

N O T E

This is the Index for Volume 94 of the Proceedings of the Indian Academy of Sciences (Plant Sciences). , This may please be included while binding the volume.

Editor.

INDIAN ACADEMY OF SCIENCES

Proceedings of the Indian Academy of Sciences
(Plant Sciences)

Volume 94, 1985

CONTENTS

The structure of the pod in two species of *Prosopis*
S Rangayya, I L Kothari and G L Shah 1

Studies in Cyperaceae: XIX. Species novarum Cyperacearum in memoriam optimi Professoris Swamy
E Govindarajalu 11

Factors controlling callus initiation, growth and plant regeneration in bread-wheat (*Triticum aestivum* L.)
Susan Eapen and P S Rao 33

Accumulation of nitrite as influenced by fluchloralin and benthiocarb in two tropical weed species
N V R Reddy and K R Rao 41

Effect of carbonate and bicarbonate on growth and sporulation in two blue-green algae
T A Sarma and Raj Garg 45

Seedcoat micromorphology of Caryophyllales: Observations on some Molluginaceae
V V Sivarajan and M C Gopinathan 51

Nitrogen fixation by *Nostoc* strains
N Jayasankari and S Shanmugasundaram 59

Pharmacognostic studies on 'Dravanti' part-I *Jatropha curcas* Linn
R C Gupta 65

C. V. Subramanian 60th Birthday Felicitation Volume

Dedication 83

Effect of soil texture on microbial abbreviation of saprophytic survival by the take-all fungus of wheat
S D Garrett 85

Propagule behaviour of the take-all fungus (*Gaeumannomyces graminis* var. *tritici*) at a field site in Western Australia
K Sivasithamparam and I Rowland 91

Specificity and penetration of tissues by micorrhizal fungi
J L Harley 99

Factors affecting the occurrence of fruitbodies of fungi forming sheathing (ecto-) mycorrhizas with roots of trees
F T Last and L V Fleming 111

Fungal endophytes of forage grasses
Garry T Cole and James F White 129

Ambrosia beetles and their associated fungi: research trends and techniques
L R Batra 137

Ecology of keratinophilic fungi
A P Garg, Sudha Gandotra, K G Mukerji and G J F Pugh 149

Polarizing processes for germ tube outgrowth from monilioid fungal spores (*Neurospora* conidial model) *Gilbert Turian* 165

Enzymes from thermophilic fungi: Proteases and lipases *Bhavdish N Johri, Sanjay Jain and Satish Chouhan* 175

Physiological studies of the Gymnoascaceae with an overview on their ecology *Gouri Rani Ghosh* 197

Conidia as modified hyphae *E Descals* 209

Notes on some deuteromycete genera with cheiroid or digitate brown conidia *B C Sutton* 229

On the anamorph genus *Cirrenalia* *R D Goos* 245

Porosubramaniana, a new genus of lignicolous hyphomycetes *Věra Holubová-Jechová* 253

Basifimbria spinosa, a new pleoanamorphic coprophilous hyphomycete *Nathalie Buffin and G L Hennebert* 259

Two new hyphomycetes from *Ethiopia* *D J Bhat* 269

Pigment localization in Dematiaceous hyphomycetes and the segregation of *Pseudogliomastix* gen. nov. from *Acremonium* *W Gams and T Boekhout* 273

A re-appraisal of the relationships between *Arthrinium* and other hyphomycetes *David William Minter* 281

New and rare entomogenous fungi from Amazonia *Robert A Samson and Harry C Evans* 309

Problems and prospects in the systematics of the Ascomycotina *D L Hawksworth* 319

On *Achaetomium* and a new genus *Subramaniula* (Ascomycota) *J A von Arx* 341

Meliolina subramanianii sp. nov *S J Hughes and K A Pirozynski* 347

Caryosporella rhizophorae gen. et sp. nov. (Massariaceae), a marine Ascomycete from *Rhizophora mangle* *Jan Kohlmeyer* 355

Pseudascozonus, a new genus of Pezizales *J van Brummelen* 363

The species concept in Hymenochaetaceae (Fungi, Hymenomycetes) *E Parmasto* 369

The relevance of chemical characters for the taxonomy of Agaricales *Meinhard Moser* 381

Monitoring of wheat rusts in the Indian sub-continent *L M Joshi, K D Srivastava and D V Singh* 387

Identity of dactuliophora leaf spot of pearl millet *P D Tyagi* 407

Management of *Rhizoctonia solani* diseases with chemicals *Rajendra K Grover and Hans R Kataria* 415

Cylindrocarpon species associated with mycotic keratitis
C Booth, Y M Clayton and M Usherwood 433

Conidial ontogenesis of pathogenic black yeasts and their pathogenicity for mice
M Miyaji and K Nishimura 437

Drechslera longirostrata (Subramanian) and other *Drechslera* species pathogenic to humans and animals
Edouard Drouhet, Claude de Bievre and Seema Wahab 453

India's changing agriculture: Its management, genetic vulnerability and diversification *H K Jain* 465

Photodynamically induced behavioural responses of the colourless flagellate *Polytomella magna*: Effects of methylene blue
Wilhelm Nultsch and Maria Häder 475

Additional DNA sequences—Topography, property, role and evolutionary significance *Arun Kumar Sharma* 487

Strand plant communities of the Indian sub-continent
T Ananda Rao and V M Meher-Homji 505

Floral differentiation and its modification *I Usha Rao and H Y Mohan Ram* 525

Interphase nuclear structure in plants: role of nuclear DNA content and highly repeated DNA sequences in chromatin condensation
Shubhada Patankar, C P Joshi, S A Ranade, Mrinal Bhave and P K Ranjekar 539

Development of male and female gametophytes and integument initiation in *Prenanthes brunoniana* Wall. (Compositae)
Sarvesh Kumar Sood and Tejinder Singh Thakur 553

Significance of seed coat pattern in *Vigna radiata* var. *sublobata*
S Ignacimuthu and C R Babu 561

Survey of some Indian soils for laccase producing fungi and their lignin degrading ability *D S Arora and D K Sandhu* 567

Immunogenic analysis of extra-cellular polysaccharide of rhizobia collected from South Indian soils *R Kasturi Bai and P N Raju* 575

Comparison of phytoplankton biomass in four water bodies of Dharwad, Karnataka State (India) *G R Hegde* 583

Pharmacognostic studies on "Dhava" (*Anogeissus latifolia* Bedd.)—I. Stem-bark and root *R C Gupta* 589

Cytology of woody species *V K Singhal, B S Gill and S S Bir* 607

Cytological studies on members of family Labiatae from Kodaikanal and adjoining areas (South India) *S S Bir and M I S Saggoo* 619

Seasonal growth, reproduction and spore shedding in *Pterocladia heteroplatos*
N Kaliaperumal and M Umamaheswara Rao 627

Seedling anatomy of *Brassica campestris* L. *S Babber and A Pillai* 633

The veinlet syndrome in the tribe Andromedeae (Ericaceae)
T Ananda Rao and Swapna Chakraborti 639

Typology and taxonomic value of foliar sclereids in the Proteaceae III. *Petrophile* R. Br. ex Knight *T Ananda Rao, Swapna Chakraborti and Silpi Das* 655

Abscission responses of petiolar explants of *Capsicum* varieties to treatments with growth substances and their combinations *Karan Singh and Y S Murty* 663

Foliar application of potassium on the growth and yield components of pigeonpea (*Cajanus cajan* (L.) Mill sp.)
N N V S Ravindranath, N V Satyanarayana, P Prasad and K V Madhava Rao 671

The pericarpic structure of *Withania somnifera* (L.) Dunal
Y S Dave, N D Patel and A R S Menon 677

Effect of different growth substances on the foliar stomata of *Tagetes erecta* L.
Vidhu, R K Sharma and Y S Murty 683